

In the Claims

1. (Currently Amended) A coiled, hot-rolled steel strip having superior low temperature toughness and weldability for a high strength electric resistance welding pipe, comprising: on a mass percent basis,

about 0.005 to about 0.04% of C;

about 0.05 to about 0.3% of Si;

about 0.5 to about 2.0% of Mn;

about 0.001 to about 0.1% of Al;

about 0.001 to about 0.1% of Nb;

about 0.001 to about 0.1% of V;

about 0.001 to about 0.1% of Ti;

about 0.05 to about 0.5% of Mo;

about 0.03% or less of P;

about 0.005% or less of S;

about 0.006% or less of N;

at least one selected from the group consisting of about 0.5% or less of Cu[.,] and about 0.5% or less of Ni [.,] and about 0.5% or less of Me; and

the balance being Fe and incidental impurities,

wherein Pcm represented by the following equation (1) is 0.17 or less:

$$Pcm = (%C) + (%Si)/30 + ((%Mn) + (%Cu))/20 + (%Ni)/60 + (%Mo)/7 + (%V)/10$$

Equation (1),

in which (%M) indicates the content of element M on a mass percent basis, and

the hot-rolled steel strip is composed of bainitic ferrite as a primary phase at a content of about 95 percent by volume or more and having a yield strength of at least 560 MPa, and wherein the ratio in percent of the amount of precipitated Nb to the total amount of Nb is from 5 to about 80%.

2. (Cancelled)
3. (Previously Presented) The coiled, hot-rolled steel strip according to Claim 1; further comprising about 0.005% or less of Ca and/or REM on a mass percent basis.
4. (Cancelled)
5. (Previously Presented) The coiled, hot-rolled steel strip according to Claim 1; further comprising at least one component selected from the group consisting of about 0.1% or less of Cr and about 0.003% or less of B,

wherein P_{cm}' represented by the following equation (2) is 0.17 or less:

$$P_{cm}' = (\%C) + (\%Si)/30 + ((\%Mn) + (\%Cu) + (\%Cr))/20 + (\%Ni)/60 + (\%Mo)/7 + (\%V)/10$$

Equation (2),

in which (%M) indicates the content of element M on a mass percent basis.

6. (Cancelled)
7. (Previously Presented) The coiled, hot-rolled steel strip according to Claim 3; further comprising at least one component selected from the group consisting of about 0.1% or less of Cr and about 0.003% or less of B,

wherein P_{cm}' represented by the following equation (2) is 0.17 or less:

$$P_{cm'} = (\%C) + (\%Si)/30 + ((\%Mn) + (\%Cu) + (\%Cr))/20 + (\%Ni)/60 + (\%Mo)/7 + (\%V)/10$$

Equation (2),

in which (%M) indicates the content of element M on a mass percent basis.

8.- 16. (Cancelled)

17. (Currently Amended) A coiled, hot-rolled steel strip having superior low temperature toughness and weldability for a high strength electric resistance welding pipe, comprising: on a mass percent basis,

about 0.005 to about 0.04% of C;

about 0.05 to about 0.3% of Si;

about 0.5 to about 2.0% of Mn;

about 0.001 to about 0.1% of Al;

about 0.001 to about 0.1% of Nb;

about 0.001 to about 0.1% of V;

about 0.001 to about 0.1% of Ti;

about 0.05 to about 0.5% of Mo;

about 0.03% or less of P;

about 0.005% or less of S;

about 0.006% or less of N;

at least one selected from the group consisting of about 0.5% or less of Cu[.,] and about 0.5% or less of Ni[.,] and about 0.5% or less of Mo; and

the balance being Fe and incidental impurities,

wherein P_{cm} represented by the following equation (1) is 0.17 or less:

$$P_{cm} = (\%C) + (\%Si)/30 + ((%Mn) + (%Cu))/20 + (%Ni)/60 + (%Mo)/7 + (%V)/10$$

Equation (1),

in which (%M) indicates the content of element M on a mass percent basis, and

the hot-rolled steel strip is composed of bainitic ferrite as a primary phase at a content of about 95 percent by volume or more and having a CTOD value of 0.25 mm or more, and wherein the ratio in percent of the amount of precipitated Nb to the total amount of Nb is from 5 to about 80%.

18. (Cancelled)

19. (Previously Presented) The coiled, hot-rolled steel strip according to Claim 17; further comprising about 0.005% or less of Ca and/or REM on a mass percent basis.

20. (Cancelled)

21. (Previously Presented) The coiled, hot-rolled steel strip according to Claim 17; further comprising at least one component selected from the group consisting of about 0.1% or less of Cr and about 0.003% or less of B,

wherein P_{cm}' represented by the following equation (2) is 0.17 or less:

$$P_{cm}' = (\%C) + (\%Si)/30 + ((%Mn) + (%Cu) + (%Cr))/20 + (%Ni)/60 + (%Mo)/7 + (%V)/10$$

Equation (2),

in which (%M) indicates the content of element M on a mass percent basis.

22. (Cancelled)

23. (Previously Presented) The coiled, hot-rolled steel strip according to Claim 19; further comprising at least one component selected from the group consisting of about 0.1% or less of Cr and about 0.003% or less of B,

wherein $P_{cm'}$ represented by the following equation (2) is 0.17 or less:

$$P_{cm'} = (\%C) + (\%Si)/30 + ((\%Mn) + (\%Cu) + (\%Cr))/20 + (\%Ni)/60 + (\%Mo)/7 + (\%V)/10$$

Equation (2),

in which (%M) indicates the content of element M on a mass percent basis.

24. (Cancelled)
25. (Previously Presented) A high strength electric resistant welding pipe formed from the coiled, hot-rolled steel strip according to Claim 1.
26. (Previously Presented) A high strength electric resistant welding pipe formed from the coiled, hot-rolled steel strip according to Claim 17.
27. (Previously Presented) The coiled, hot-rolled steel strip according to Claim 1 wherein the hot-rolled steel strip is finished.